

## Remarks

In the present office action, claims 1-28 were examined and claims 1-28 were rejected. By this amendment, claims 1, 2, 7, 8, 9, and 13 have been amended, and claims 3, 10, 16 and 19-28 have been canceled. Thus claims 1, 2, 4-9, 11-15, 17 and 18 are pending.

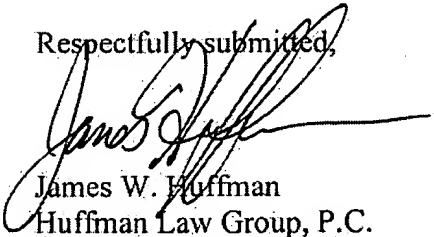
The Examiner rejected claims 1-3, 6-10, 13, 14, 23-28 under 35 USC 102(e) as being unpatentable over Kalkunte et al. (US Patent No. 6,813,268).

The Examiner further rejected claims 4, 5, 11, 12, 15, 20-22 under 35 USC 103(a) as being unpatentable over Kalkunte in view of Tarditi (US Patent No. 6,625,808).

Applicant has reviewed the examiner's rejections and has amended the claims to clearly point out that the LPM of applicant's invention, as clearly pointed out in the specification on page 31, is adaptable to changing packet sizes of packets coming into the system. Adaptation of LPM memory unit sizes fulfills a goal of the present invention of continually selecting the best mapping scheme to enable data storage with minimum fragmentation. Applicant has thoroughly reviewed Kalkunte and Tarditi and has not found any indication that Kalkunte, taken alone or in combination with Tarditi appreciates the problem of memory fragmentation (e.g., that typically results when processing packets of varying sizes), much less does he offer any hint, suggestion, or comment to address the problem of handling packets of varying sizes by evaluating the size of incoming packets and resizing the memory units to minimize fragmentation, as specifically recited in the independent claims, as amended. For this reason, application respectfully requests the examiner withdraw his rejection of all pending claims.

Applicant earnestly requests that the Examiner contact the undersigned practitioner by telephone if the Examiner has any questions or suggestions concerning this amendment, the application, or allowance of any claims thereof.

Respectfully submitted,



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